

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/36030

A. CLASSIFICATION OF SUBJECT MATTERIPC(7) : H04Q 7/20 H04B 1/00 1/10
US CL : 340/7.21 455/450

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 340/7.21, 455/450, 455/69, 455/63.1, 375/225, 370/335, 370/485

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NoneElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
None**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | JP406029922 (MITSURU et al) 04 February 1994, abstract. | 1-29 |
| Y | US 6,366,195 B1 (HAREL et al) 02 April 2000; col. 2, lines 1-67 | 1-29 |
| Y | US 6,061,568 A (DENT) 09 May 2000, col. 3, lines 1-5 | 2-10 |
| Y | US 5,887,245 A (LINDROTH et al) 23 March 1999, col. 4, lines 10-21) | 4-10 |
| Y | US 5,734,967 A (KOTZIN et al) 31 March 1998, col. 5, lines 54-67 | 4-10 |
| Y | US 6,226,320 B1 (HAKKINEN et al) 01 May 2001, col. 1, lines 42-45 | 7-10 |
| Y | US 6,477,158 B2 (TAKE) 05 November 2002, col. 7, lines 30-40 | 8-10 |

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

22 May 2003 (22.05.2003)

Date of mailing of the international search report

26 JUN 2003

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